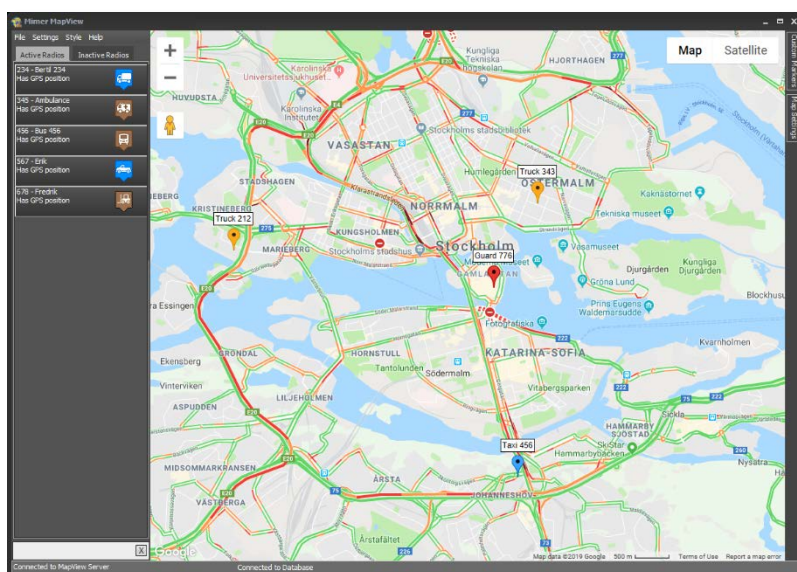# Mimer ııılı SoftRadio

Connecting radios all over the world

Users guide to

Mimer MapView

Client software

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This paper will guide you to the use of your Mimer MapView system.

Mimer MapView consists of two separate programs:

- Mimer MapView Server
- Mimer MapView (Client)

This document describes the use of the client software.

Please also refer to the setup guide of the MapView server and the standard SoftRadio, plus the web page www.lse.se.
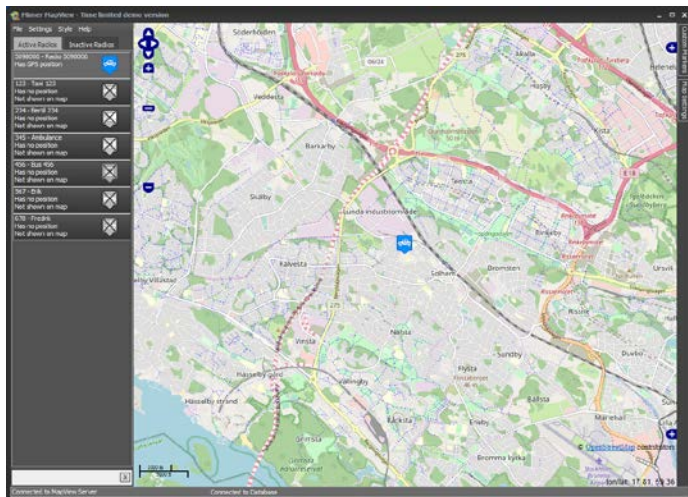
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1   General

Mimer MapView is a component in the Mimer family of products for network operated 2-way radios.

Together with the **Mimer MapView Server** it displays the position of GPS equipped radios using Google Maps or OpenStreetMap.

Example of a MapView window with one active radio

1.1   Mimer MapViewServer

The MapView Server is typically installed on a separate Server Computer together with the Database Engine. However, it is also possible to run it on the Client computer.

The MapView Server maintains a database of all radios in the system and their last reported positions and states.

1.2   Mimer MapView

The MapView Client program has a GUI where the radios are shown in a list and the positions of them are displayed on a map.

The MapView Client can be used stand-alone but is also designed to run together with Mimer SoftRadio. Then a call in SoftRadio can automatically be initiated by clicking on a radio in MapView.

2   Using Mimer MapView

Open the MapView program by clicking the icon.

The data base server and MapView Server software must of course be already running, either on its separate server or on the same computer as where you are starting MapView.

The main window is the Map View showing icons for active radios and custom markers.

At the left is a list showing all the radios. Using the tabs at the top you can select to show active radios or inactive radios.

At the bottom left is an edit box used to filter the displayed radios based on Radio ID´s or Radio Names in the list.

At the bottom of the window is information to show that the client is connected correctly to the server and to the data base. These labels will turn red if there is a connection failure.
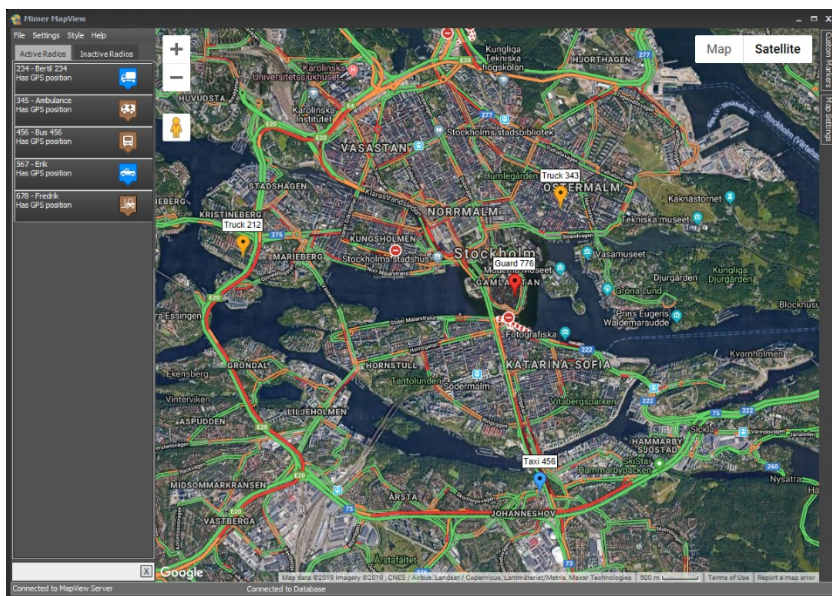

Example of the MapView window

2.1 Finding a radio on the map

Double-Clicking on a radio in the list to the left will move the map so that the position of the radio is centred on the map. You can also right click on a radio in the list and select "Zoom in and centre on map" from the pop-up menu.

2.2 More information

Hoovering over a radio Icon on the map will open up an information box with the name and its current state.
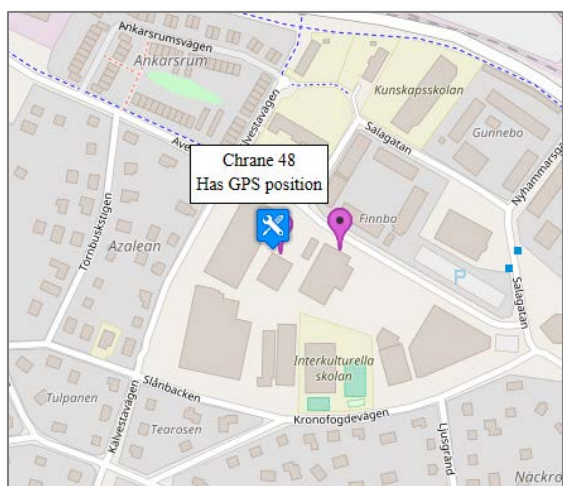
2.3 Position information

Depending on how "fresh" the position data is, different information will be shown. And when it gets too old the radio will be moved to the inactive tab.

The timing settings are made in the MapView server and shared by all clients. Please see the MapView server setup manual for more information.

The following information can be displayed, and the icon will then show the corresponding colour:

• Has GPS position	The icon has the pre-selected colour
• Has old GPS position	The icon is grey
• Very old position – Not shown on map	The icon is grey with a cross over
• Has no position – Not shown on map	The icon is grey with a cross over

2.3.1 Beacon position

In some radio systems it is also possible to use fixed radio beacons as position sources where the GPS receiver does not work, for example in underground passages.

If the radio reports a beacon instead of a GPS position it will be shown in the same way as for GPS above but with the text "Has Beacon Position".

For each beacon a text describing the beacon position can be entered into the MapView server. This text will be displayed under the radio name in the Active list at the left and when hoovering over the icon.
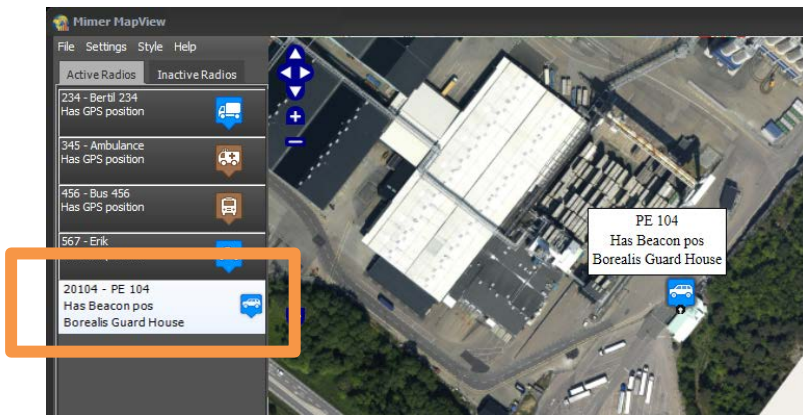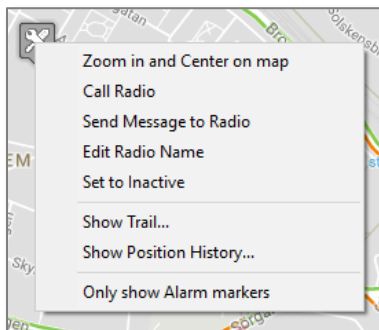

Example of radio with indoor beacon position

2.4   Right-click menu

By right clicking on the icon of the radio on the map (or in the list at the left) you will get a pop-up menu.

The pop-up menu will look a bit different depending on the choices that are relevant at the given moment.

2.4.1   Call Radio

Clicking "Call Radio" will initiate a Private Call to the selected radio using Mimer SoftRadio. The radio used for this in Mimer SoftRadio will be the one associated with the NetID* of the clicked radio or, if no association exists, the one where the red arrow in SoftRadio is pointing.

To make private calls SoftRadio needs to be running on the same PC as MapView.

*Read more about NetID in the setup manual.

2.4.2 Send Message to Radio*

Clicking "Send Message to Radio" will open a dialogue where you can enter text for an SDS message to be sent to the radio. This is also sent via SoftRadio like the private call described above.

To send messages SoftRadio needs to be running on the same PC as MapView.

*Only works with certain radio types.

2.4.3 Edit Radio Name

Here you can change the name of a radio.

This function can be set to Allow/Disallow in the server, so it may not be available in the MapView client.
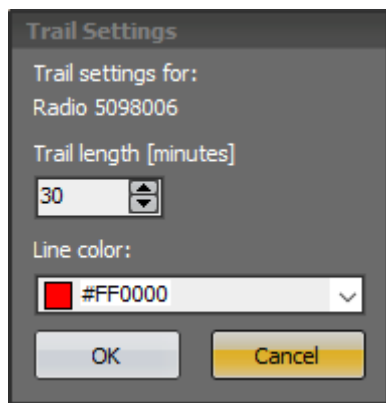
2.4.4 Set to Inactive / Set to active

You can manually set the radio to inactive so it moves to the list under the "Inactive Radios" tab.

Clicking a radio in the Inactive list will give the opposite choice - setting it to Active, and thus moving it to the "Active radios" tab.

2.4.5 Show Trail

Trails can be enabled by selecting "Show Trail…" from the right-click menu.

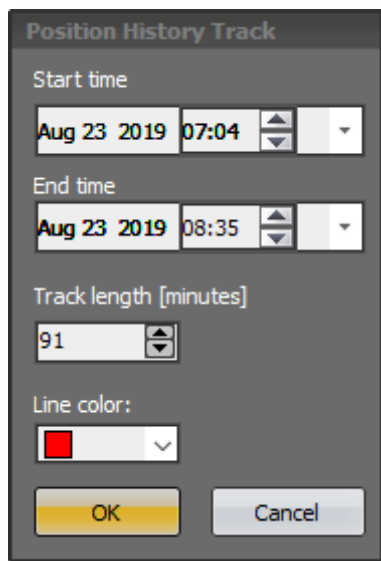The length of the trail and the trail colour on the map can be selected from the dialogue.
When the trail is active another item on the right-click menu becomes available: "Change Trail settings" which allows the length and colour to be changed.

Turn off the trail by unselecting "Show Trail…".

Trail and track can be inhibited on a per radio basis in the server. Please refer to the MapView server setup manual.

2.4.6 Showing a history track

A track from the history data can be displayed by selecting Show Position History…" from the right-click menu.


The start and end-times can be selected from the dialogue. The Track length will be calculated automatically. It is also possible to set the start time and then enter the length instead. The end time will then be automatically calculated.

When the history track is active another item on the right-click menu becomes available: "Change Position History settings" which allows the length and colour for the track to be changed.
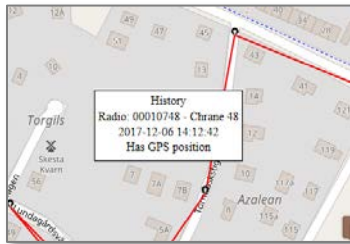
Turn of the position history track by unselecting "Show Position History…"

Storage of history data can be inhibited on a per radio basis in the server. Please refer to the MapView server setup manual.
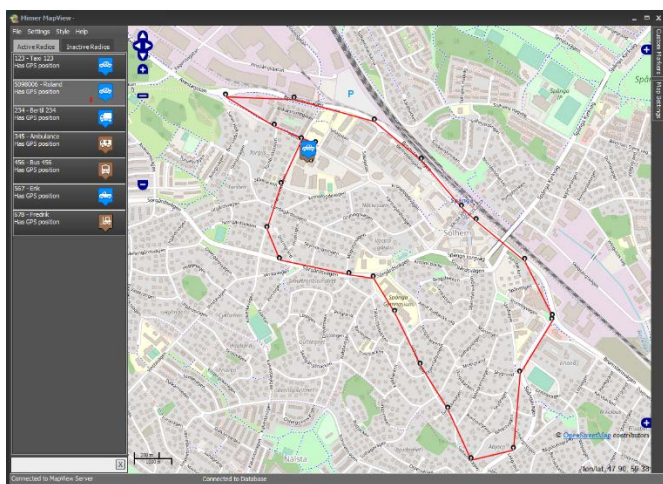

Example of a position trail

Each position dot can be clicked and will then show the history information regarding the radio at that spot.

2.4.7   Showing only radios that are in an alarm state

If you have many radios in a small area of the map it can be hard to see the radio that is in the alarm state. You can then choose to show only markers of radios that are in an alarm state, from the right click pop-up menu.
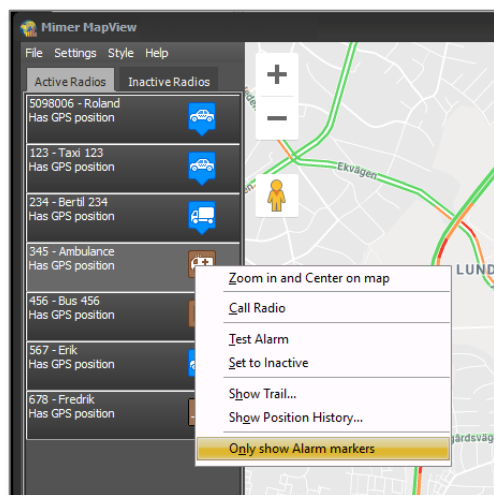
On the right click menu is a choice for showing only radios that are in an alarm state. Click the same menu choice again to show all radios.

2.5   Setting a Custom marker

At the righthand side there is a drop-out menu for adding markers. This can be useful for highlighting special points of interest on the map; for example, your own office, a large customer etc.

Under that tab are selections for setting the marker position by address or by coordinates and giving the marker a name.

You can also add a marker by right-clicking on the map and selecting "Add a marker here" from the pop-up menu.

By double clicking on the marker in the drop-out menu the map will pan and zoom in on the marker.

3 Style

Just as in SoftRadio there are different style themes to choose from. Try the different alternatives until you find your favourite.
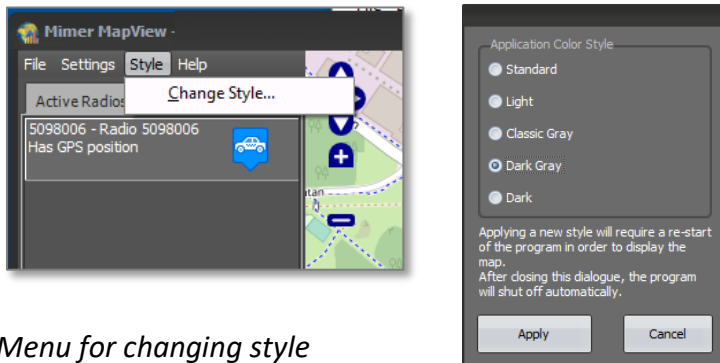

Menu for changing style

4 Maps

When connected to the Internet maps will be fetched online as needed. They are not stored in the application. There is a choice in the menu of using Goggle Maps or OpenStreetMap.

When Google Maps is selected it is possible to switch between satellite view and map view. Google Maps also has choices for traffic information, terrain info etc.

In OpenStreetMap it is possible to use locally stored maps or satellite photos. This is helpful if the MapView client needs to be run offline and/or when a higher resolution is needed than the online maps can give, for example over an industrial plant.

Read more about adding custom maps in the MapView client and server setup manual.
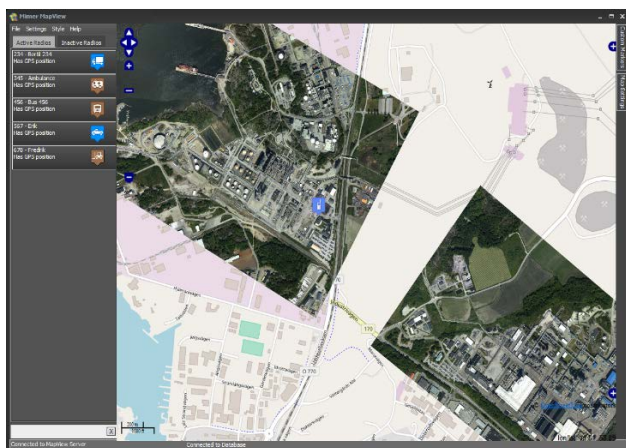
Example of two locally stored custom satellite photos overlaid onto the map
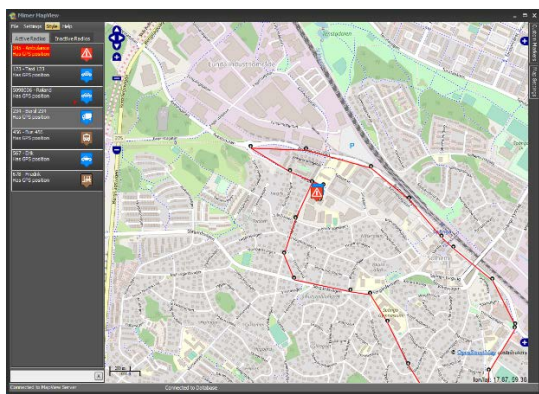
5 Emergency alarm

When a radio sends an alarm message the map will centre and if necessary also zoom in on the most recent position recorded for that radio, and the radios list box will move to the top of the Active list.

The radios icon will be placed on top of other icons and be temporarily changed to a red alarm state icon and an alarm tone will be heard. The alarm sound is silenced by clicking anywhere in the application. It will automatically be silenced on all clients.

If a second alarm is received it will also move to the top of the list but the map will remain at the current position for the first alarm.

If the position for the radio is "old" or "very old" this will be indicated in the information text and the time and date for the last good position is shown. For a "very old" position the icon will have a black cross, further highlighting that the accuracy of the position is uncertain.
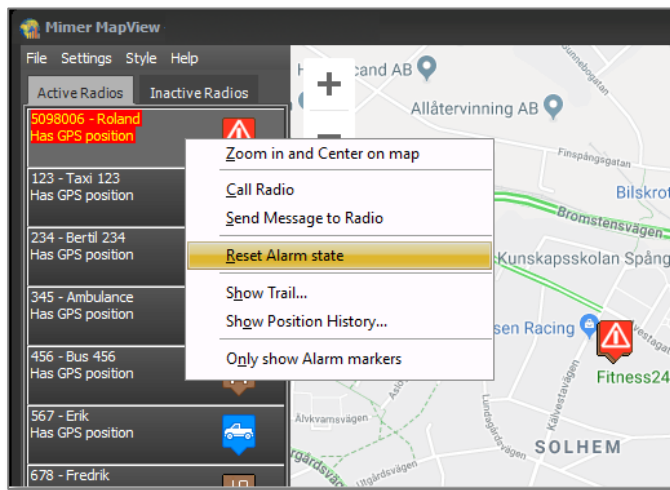

Example of an emergency position that has been received

More information can be displayed by hoovering over the icon on the map.

Example of information shown when hoovering over an alarm icon

The alarm state must be manually reset by clicking the right-click menu item "Reset Alarm state". This action by one client will reset the alarm on all clients.

Menu for resetting an alarm state

5.1   Only show position for a radio when it is in alarm state.

Some users prefer not to be shown on the map except if they are in an alarm state. This can be set up in the server for each radio.

They will be shown in the active tab to the left, but not on the map. Only if an alarm is received the position will be shown.
Please read more about these settings in the MapView server setup manual.

5.2   Other types of alarms

In the server, different types of alarm messages can be defined which are displayed in different ways.

The most common other type than pushing the emergency button is the "Man Down" alarm. This will be shown with a unique icon and text so that the operator can see that the alarm was raised from the "Man Down" function in the radio.

Except from the icon and text, the function is the same as for other alarms.
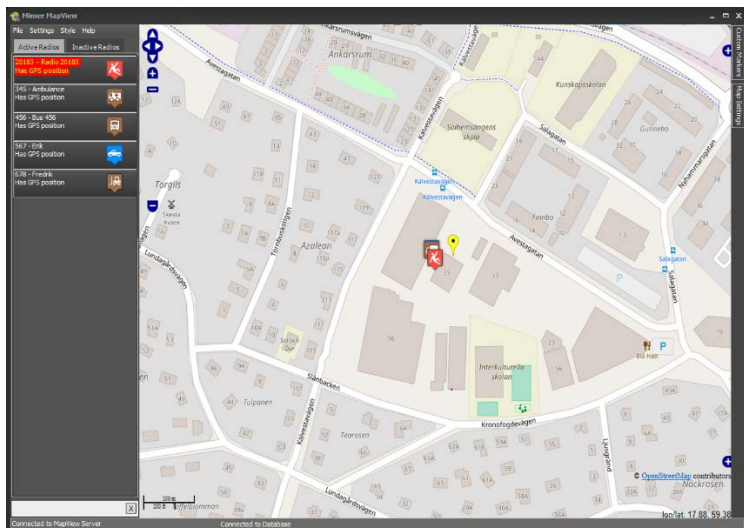
Example showing an alarm with the "Man Down" icon

5.3   Test the alarm sound function

Under Settings there is a function to test the selected Alarm sound. Press and hold the button and the alarm shall be heard in your speakers.

5.4   Test the alarm

In the right click menu of a radio there is a selection for "Test Alarm". This will set the selected radio to "Alarm state" in the MapView server and all clients will get the alarm.

The alarm shall result in both audio (if set under Settings), red marking of the text, an alarm icon on the map and pan/zoom of the position to the centre of the map.

To stop the audio, click anywhere. The audio shall stop on all clients.

To reset the alarm state, right click and select "Reset Alarm state". The alarm will then be reset in the server and therefore also on all other clients.

Mimer
SoftRadio